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## WHAT IS CLAIMED IS:

- 1. An isolated IL-16 antagonist peptide consisting of CLLS.
- 2. An isolated IL-16 antagonist peptide of any one of WQCLLS, WQALLS, VVQVVA or VKQVVA.
- 3. An isolated IL-16 antagonist peptide consisting of GMWQCLLS (SEQ ID NO:13).
- 4. An isolated peptide consisting of GMWQCLLSDSGQVLLE (SEQ ID NO:12)
- 5. An isolated peptide consisting of any one of TGLWQCLLSEGD (SEQ ID NO:14) or VSEEQKVVQVVA (SEQ ID NO:15).
  - 6. An IL-16 antagonist peptide comprising  $Xaa_1-LL-Xaa_2$  wherein  $Xaa_1$  and  $Xaa_2$  is any amino acid (SEQ ID NO:1).
  - 7. The IL-16 antagonist peptide of Claim 6 wherein  $Xaa_1$ -LL- $Xaa_2$  is identical to the corresponding native sequence of a mammalian IL-16.
  - 8. An IL-16 antagonist peptide comprising CLLS (SEQ ID NO:2).
    - 9. An IL-16 antagonist peptide comprising  $Xaa_1-Xaa_2-Xaa_3-L-L-Xaa_4$  wherein  $Xaa_1-Xaa_4$  is any amino acid (SEQ ID NO:3).
- 10. The IL-16 antagonist peptide of Claim 9, wherein Xaa<sub>1</sub> is Trp; Xaa<sub>2</sub> is selected from Gln or Ala, Xaa<sub>3</sub> is selected from Cys or Ala and Xaa<sub>4</sub> is Ser.
  - 11. The IL-16 antagonist peptide of Claim 9, wherein  $Xaa_1-Xaa_2-Xaa_3-L-L-Xaa_4$  identical to the corresponding native sequence of a mammalian IL-16.
- 30 12. An IL-16 antagonist peptide comprising WQCLLS (SEQ ID NO:4) or WQALLS (SEQ ID NO:5).

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- 13. An IL-16 antagonist peptide comprising  $Xaa_1-Val-Xaa_2-Val-Xaa_3-Xaa_4$  wherein  $Xaa_1-Xaa_4$  is an amino acid (SEQ ID NO:8).
- 14. The IL-16 antagonist peptide of Claim 13, wherein  $Xaa_1$ -Val- $Xaa_2$ -Val- $Xaa_3$ - $Xaa_4$  is identical to the corresponding native sequence of a mammalian IL-16.
- 15. An IL-16 antagonist peptide comprising VVQVVA (SEQ ID NO:9) or VVQKVA (SEQ ID NO:11).
- 16. An IL-16 antagonist peptide comprising GMWQCLLS (SEQ ID NO:13).
- 17. An IL-16 antagonist peptide comprising GMWQCLLSDSGQVLLE (SEQ ID NO:12).
- 18. An isolated nucleic acid molecule coding for any one of the peptide of Claims 1-6, 8 or 12.
- 19. An antibody directed against the peptide of any one of Claims 1-6, 8 or 12.
- 20. A pharmaceutical composition comprising the peptide of any of Claims 1-6, 8 or 12, and a pharmaceutically acceptable carrier.
- 21. A pharmaceutical composition comprising the antibody of Claim 19.
  - 22. A method of treating an IL-16 mediated disorder in a subject, comprising administering to the subject a therapeutically effective amount of the peptide of any of Claims 1-6, 8 or 12 and a pharmaceutically acceptable carrier.
- 23. The method of Claim 22, wherein said IL-16 mediated disorder is an inflammatory disease selected from asthma, arthritis, inflammatory bowel disease (IBD), Systemic Lupus (SLE), multiple sclerosis (MS), Graves opthalmopathy, atopic rhinitis, atopic dermatitis and bullous pemphigoid.

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- 24. The method of Claim 23, further comprising simultaneously administering an anti-inflammatory agent selected from NSAIDS, steroids, anti-TNF $\alpha$  antibody, anti-CD4 antibodies, cyclosporin-A.
- 25. A method of inhibiting the binding of IL-16 to a CD4 receptor comprising the administration of at least one peptide of any one of Claims 1-6, 8 or 12.
  - 26. An IL-16 antagonist.
- 27. A pharmaceutical composition comprising an IL-16 antagonist and a pharmaceutically acceptable carrier.
  - 28. A method of treating an IL-16 mediated disorder comprising blocking the interaction of IL-16 with an IL-16 receptor by the administration of an IL-16 antagonist.